

Marks

Question 18 (4 marks)

Investigators gathered data on a group of 100 smokers for a period of 10 years. During this time 12 people in the group developed lung cancer, two died in traffic accidents, and three died of heart attacks. The investigators used this data to state that smoking caused lung cancer.

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Describe how this investigation could be improved.

- The number smokers that information was being gathered on could have been increased to increase reliability.
- The experiment could have been replicated many times to increase the validity.
- Information gathered from this experiment could have been compared to information/experiment previously done on this topic to increase the validity.
- They could have also looked for the typical cells that appear when cancer growth developed and linked it to smoking.